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Enter terms
Search

[Reset](#) Sort By: Close Date (descending)

- [Relevancy \(descending\)](#)
- [Title \(ascending\)](#)
- [Open Date \(descending\)](#)
- [Close Date \(ascending\)](#)
- [Release Date \(descending\)](#)

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Displaying 91 - 95 of 95 results



1. [N11A-T035: Safe High Voltage Cathode Materials for Pulsed Power Applications](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To develop electrochemical materials for high density Li-ion batteries capable of supporting high transient and pulsed loads while offering enhanced safety and lifecycle performance. DESCRIPTION: Future Navy applications will require large amounts of stored energy to support loads which have high discharge and transient characteristics including pulses and similar waveforms. A wide ...

STTR Navy

2. [N11A-T036: Weather and Environmental Software Tool for System Requirements Investigation](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a validated analysis software package that can be used as a system requirement estimation tool to aid the aviation/missile development community in establishing real-world probabilities of encounter various weather related events. This tool will be able to predict the probability of encounter for a wide variety of weather events and phenomena. As weather databases tend to be lar ...

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[3. N11A-T037: Desktop Manufacturing with Micro-robot Swarm](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a swarm of micro-robotic fabrication machines that will enable the manufacture of new materials and components. Address the major technical issues in developing these micro-robotic machines, the platform hardware, and the architecture for their communication and control. DESCRIPTION: Desktop manufacturing is the ability to use a personal computer to drive a miniature fabricat ...

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[4. N11A-T038: Scenario Based Tactical Radio Channel Simulator](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Research and develop a RF channel simulation framework to test the next generation of mobile multi-protocol wideband tactical systems. The framework would allow for the generation of a model based scenario via a script based interface or via a GUI that allows the user to model the effects of mixed mobile and fixed multi-link radio network using this real-time channel simulator. The sim ...

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[5. N11A-T039: New Process for Space Qualified Electronic Components](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a new design or manufacturing process to quickly produce electronic components that are reliable in the space environment. DESCRIPTION: Space is a harsh environment. Spacecraft are subjected to high levels of radiation depending on the orbit. Spacecraft undergo extreme thermal cycles as they move in and out of direct sunlight. Temperatures range from -171C to 108C at geosy ...

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- [First](#)
- [Previous](#)
- ...
- [2](#)
- [3](#)
- [4](#)
- [5](#)
- [6](#)
- [7](#)
- [8](#)
- [9](#)
- [10](#)

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